Yonghan Yang

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Objective

I'm an **aspiring AI researcher**, focused on Score-Based Generative Models, Agentic AI and Foundation Models. I'm also interested in interdisciplinary research: AIDD in biology, LSTM in finance and PINNs. I sketch, play tennis, enjoy literature, run regularly and volunteered across venues. My motto is ***To become a Hero the Hard Way***.

Skills: *Coding* in Python, Rust, TypeScript. *Writing* via Markdown, Typst, LaTeX. *Lab* with SnapGene, Benchling, AutoDock Vina. *Visuals* with Manim, PowerPoint, Photoshop.

Education

MBZUAI, (Abu Dhabi, UAE), *GPA* - 3.94/4 Aug. 2025 – Present

- Bachelor of Science (B.Sc.) in Artificial Intelligence
- Selected Courses: **ML7501 Applied ML** (M.S. course), GE1510 Physics & Life Science, A0500 Advanced Math
- Selected Honors: Dean's List ($< 10\%$), *Sheikh Tahnoon bin Zayed Scholarship in AI Excellence*, Pioneer Sholarship

Research

Surrogate-Guided Memory Retrieval for Agents, *Co-first author* Apr. 2026 – Present

- Optimized memory retrieval for autonomous agents using surrogate-guided offline training. Supervised by Ye Yuan and Prof. Steve Liu from Mila - Quebec AI Institute.

Descrete Diffusion Survey, *Contributing author* Mar. 2026 – Present

- Comprehensive review of formulation and application of diffusion-based models.

Agentic Benchmark for Financial Intelligence, *Contributing author* Mar. 2026 – May 2026

- Evaluated agents on financial workflows across trading, hedging, market insights and auditing.

Semi-supervised High-order Relation Learning, *Contributing author* Mar. 2026 – May 2026

- Prediction and analysis on comprehensive drug combination-disease relationship dataset. Supervised by Prof. Jun Wen from Harvard Medical School.

Multi-Modal Biomedical ML Agent Benchmark, *Contributing author* Oct. 2025 – May 2026

- Designed AI agent framework. Curated benchmark to evaluate agent's code generation for biological research. Supervised by Prof. Le Song from Genbio.

Diffusion Surrogate for Offline Optimization, *Co-first author* Oct. 2025 – Jan. 2026

- Used conditional diffusion models as surrogates for offline optimization. Accepted by 2026 ICML and ICLR DeLTa workshop. Supervised by Ye Yuan and Prof. Steve Liu.

Activities & Experience

Paper Reviewer, *ICLR* Feb. 2026 – Present

- Recruited as reviewer for ICLR 2026 Workshop FM4Science.

Mathematical Modeling Challenge, *COMAP & MAA & AMS* Jan. 2025 – Present

- 2026 MCM Problem A (results out 2026.5.8). 2025 IMMC *Greater China* (**O**utstanding, $< 1\%$) and *International* (**M**eritorious, $< 10\%$) rounds.

Synthetic Biology, *iGEM Competition* Oct. 2022 – Present

- iGEM team BNDS-China as **top 10** teams ($< 10\%$) & gold medal in 203-2025. Supervised lab, outreach activites, and developed computational biology solutions (see wiki) as *instructor* and *student leader*.

Rhino-Bird Science Talent Advancement Program, *BNRist & THU & Tencent* Apr. 2024 – Aug. 2024

- Learned research skills like academic writing, core math like calculus, and ML basics. Realized attention mechanism via `PyTorch`. Researched on dynamic game theory in college application.